## IN THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the present application.

- (Currently amended) A transdermal delivery system (TDS) comprising a backing layer, a self-adhesive matrix containing an amine-functional drug, and a protective foil or sheet to be removed prior to use, wherein the self-adhesive matrix comprises a solid or semisolid semi-permeable polymer
  - (1) wherein [[an]] the amine-functional drug in its free base form is incorporated,
  - (2) which comprises within the matrix 10<sup>3</sup> to 10<sup>9</sup> microreservoirs per cm<sup>2</sup> of the surface of the matrix, said microreservoirs containing the amine functional drug,
  - (3) which is permeable to the free base of the amine functional drug,
  - (4) which is substantially impermeable to the protonated form of the amine functional drug, and
  - (5) wherein the maximum diameter of the microreservoirs is less than the thickness of the matrix and is not greater than 35 μm;
  - and wherein the backing layer is inert to the components of the matrix.
- 2. (Previously presented) The TDS of claim 1, wherein the mean diameter of the microreservoirs is in the range of 0.5 to 20  $\mu m$ .
- 3. (Previously presented) The TDS of claim 1, wherein the amine functional drug has an octanol/water partitioning coefficient (log p)  $\geq$  2.8 at pH 7.4.
- 4. (Previously presented) The TDS of claim 1, wherein the amine functional drug has a pKa of 7.4 to 8.4.
- 5. (Previously presented) The TDS of claim 1, wherein the amine functional drug is a dopamine D2 receptor agonist.
- 6. (Previously presented) The TDS of claim 5, wherein the dopamine D2 receptor agonist is an aminotetralin compound.
- 7. (Canceled)

- 8. (Previously presented) The TDS of claim 1, wherein the amine functional drug is an anticholinergic drug.
- 9. (Previously presented) The TDS of claim 8, wherein the anticholinergic drug is oxybutynin.
- 10. (Previously presented) The TDS of claim 1, wherein the self-adhesive matrix is free of particles that can absorb salts of the amine functional drug at the TDS/skin interface.
- 11. (Currently amended) The TDS of claim 1, wherein the **polymer self-adhesive** matrix comprises a silicone pressure sensitive adhesive.
- 12. (Currently amended) The TDS of claim 1, wherein the **polymer** <u>self-adhesive</u> matrix comprises two or more silicone pressure sensitive adhesives as the main adhesive components.
- 13. (Previously presented) The TDS of claim 12, wherein the silicone pressure sensitive adhesive is a blend of a high tack silicone pressure sensitive adhesive comprising polysiloxane with a resin and a medium tack silicone pressure sensitive adhesive comprising polysiloxane with a resin.
- 14. (Canceled)
- 15. (Previously presented) The TDS of claim 1, wherein the microreservoirs additionally contain at least one crystallization inhibitor comprising soluble polyvinylpyrrolidone, a copolymer of polyvinylpyrrolidone and vinyl acetate, polyethylene glycol, polypropylene glycol, glycerol, a fatty acid ester of glycerol and/or a copolymer of ethylene and vinyl acetate.
- 16. (Previously presented) The TDS of claim 15, wherein the at least one crystallization inhibitor comprises soluble polyvinylpyrrolidone.
- 17. (Previously presented) The TDS of claim 1, comprising within the matrix  $10^6$  to  $10^9$  microreservoirs per cm<sup>2</sup> of the surface of the matrix.
- (Previously presented) The TDS of claim 1, wherein the maximum diameter of the microreservoirs is 2.5 to 30 μm.